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Conformal mappings of circular domains on finitely-connected non-smirnov type domains

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Abstract

© Avkhadiev F.G., Shabalin P.L. 2017. We consider a canonical factorization and integral representation for the derivatives of the conformal mappings of circular domains on finitely-connected non-Smirnov type domains. By means of the functions in the Zygmund class, we obtain the conditions for the global univalence. Earlier similar results were obtained by a series of authors just for simply-connected domains.

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Keywords

Non-Smirnov type domain, Schwarz operator, Zygmund condition